



LISTING OF THE CLAIMS

C2 22. (Presently amended) A method of compressing a data file having data elements each represented by a number of bits, comprising:

performing a wavelet transformation of the data file using modular arithmetic to provide a series of wavelet coefficients, each of said coefficients being represented by a number of bits having a maximum count no greater than a number of bits representing each of said data elements;

discarding wavelet coefficients that fall below a predetermined threshold value;

quantizing remaining wavelet coefficients ~~which fall above a predetermined threshold value~~ to provide a quantized series of wavelet coefficients; and

compressing the quantized series of wavelet coefficients to provide a compressed data file.

23. (Original) The method of claim 22 wherein the compressing step comprises the step of applying an entropy coding to the quantized series of wavelet coefficients.

24. (Original) The method of claim 23 wherein the entropy coding is selected from the group of arithmetic, Huffman, run length and Huffman run length combined.

25. (Previously amended) The method of claim 23 further comprising the step of performing a color transformation of the data file prior to the wavelet transformation step.

26. (Original) The method of claim 25 wherein the quantizing step comprises sub-band orientation quantization.

27. (Original) The method of claim 26 wherein the wavelet transformation step comprises integer wavelet transformation.

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28. Cancelled.

29. (Original) The method of claim 27 wherein the integer wavelet transformation comprises biorthogonal filter method.

30. (Original) The method of claim 27 wherein the integer wavelet transformation comprises the correction method.

31. Cancelled.

32. (Presently amended) A program for compressing a data file having data elements each represented by a number of bits, comprising:

a routine for performing a wavelet transformation of the data file using modular arithmetic to provide a series of wavelet coefficients, each of said coefficients being represented by a number of bits having a maximum count no greater than a number of bits representing each of said data elements;

a routine for quantizing those wavelet coefficients which fall above a predetermined threshold value to provide a quantized series of wavelet coefficients; and

a routine for compressing the quantized series of wavelet coefficients to provide a compressed data file.
